

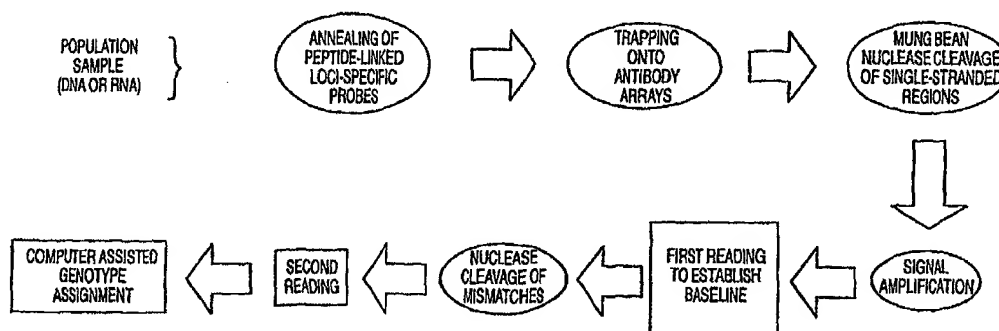
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(54) Title: METHODS FOR DETECTION OF NUCLEIC ACID POLYMORPHISMS USING PEPTIDE-LABELED OLIGONUCLEOTIDES AND ANTIBODY ARRAYS			

BASIC WORKING PRINCIPLE OF VGMS-PL



(57) Abstract

The present invention is directed to methods and compositions for use in screening nucleic acid populations for nucleic acid polymorphisms. The methods, referred to generally as ValiGeneSM Mutation Screening, Peptide-Linked (VGMS-PL) methods, are specifically designed for high-throughput genotype mapping and gene expression analysis of animal and plant nucleic acids without requiring a PCR amplification step. In particular, the methods of the invention utilize oligonucleotide probes labeled with distinguishable and identifiable peptide tags, that are captured on addressable antibody arrays.

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